PHILIPS

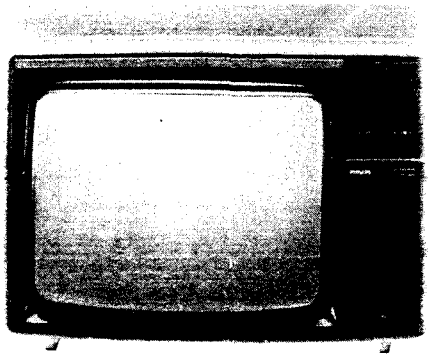
8121

MODEL

SERVICE MANUAL

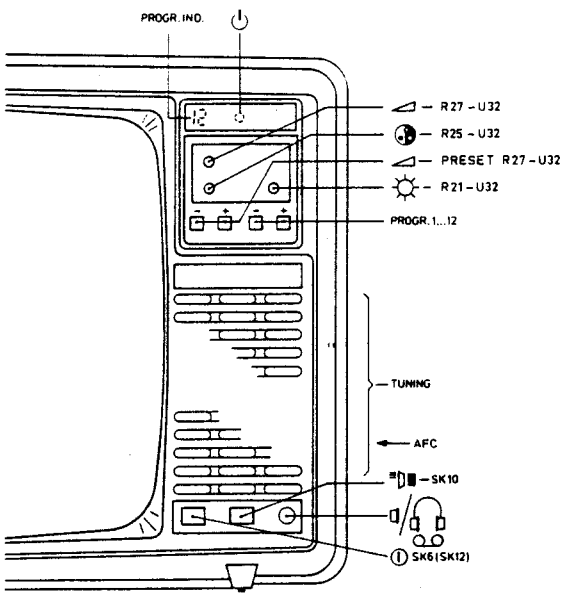
Colour television

Service
Service
Service

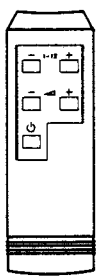


21999/

Service Manual



20817B12



21001A12

CHASSIS KT 3
+
22 AV 1015/00/02
22 AV 1016/00/02

200-240 V/65 W

75 Ω coax.

A42-556X
4822 131 20045

16 Ω/2 W

–

360°
8-600 Ω

180°
–

520 mm

356 mm

394 mm

ELC2004

VHFa : 47- 68 MHz
VHFb : 174-230 MHz
UHF : 470-892 MHz

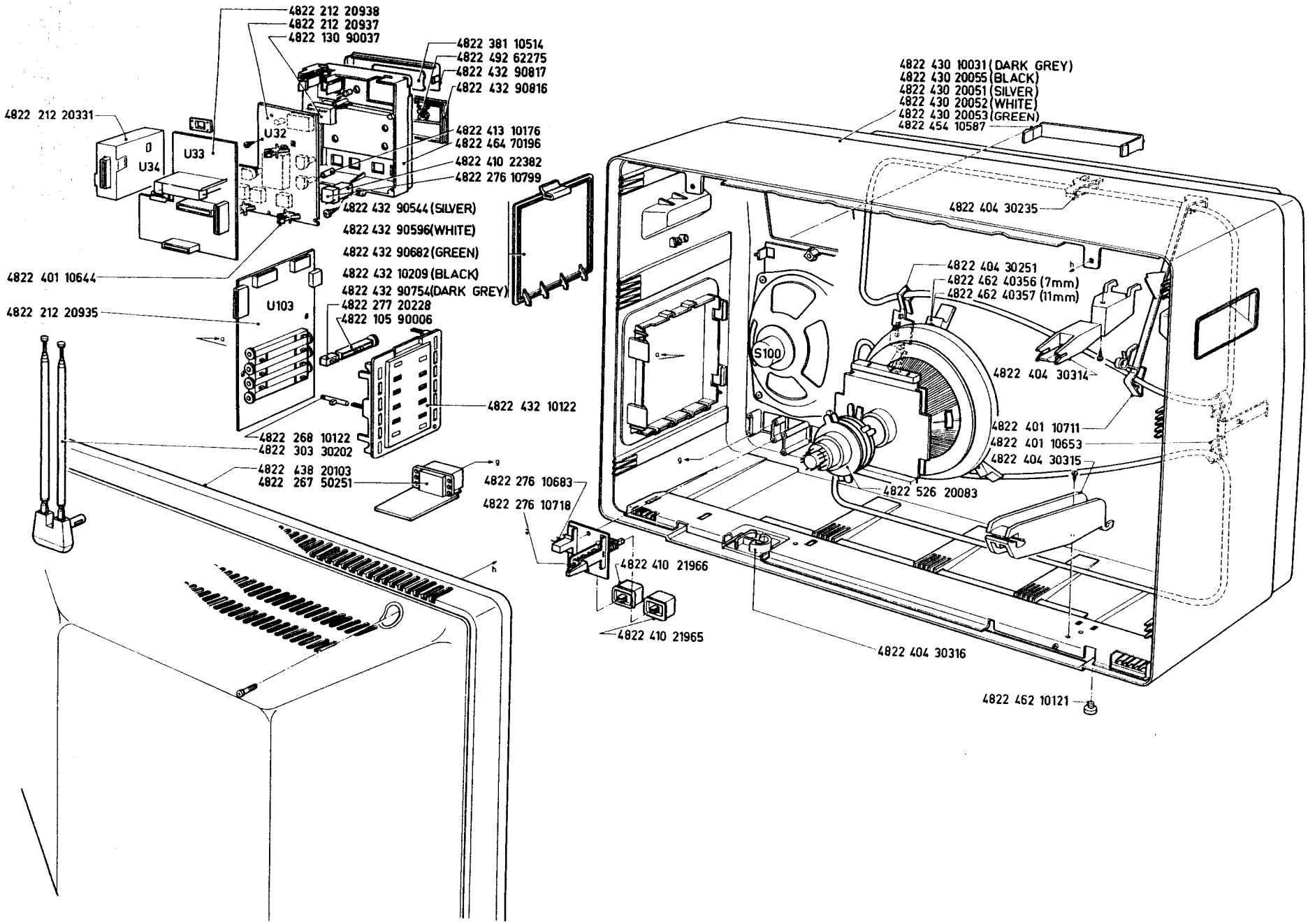
Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

Subject to modification

4822 727 13625

Printed in The Netherlands

PHILIPS



CS 72 747

21 893 F12

U93

INFRA RED TRANSMITTER
TRASMETTITORE
TELECOMANDO
INFRAROSSI

U34

7V
0V
ca 120 m sec

U94

IN SOME VERSIONS
SK10 DELETED
ELIMINARE SK10
IN ALCUNE VERS

U32

IC 2
LN5261RK

IC15
TMS1000NLL
MP3316

DISPLAY DRIVER
PILOTA DISPLAY

POR
AZZERR.
ALL'ACCENS

STAND BY/ON
CONTROL
CONTROLLO
ACCESO/
ATTESA

OSC.

INPUT
LOGIC
INGRESSO
LOGICO

PROGRAM
DECODER
DECODIFICA-
TORE
PROGRAMMA

VOLUME
CONTROL
CONTROLLO
VOLUME

VOLUME
DATA
LATCH
VOLUME
LATCH
DATI

POWER ON RESET
AZZERR. ALL
ACCENS
CONT. IMPULS
MAINS SWITCH
IMPULSO DAL
CONTATTO DELL'
INTERRUTTORE
RETE

DATA
DATI

U33

IC856
SN29770BN
4 BITS DECODER
DECOD 4 BITS
PR 1
PR 2
PR 3
PR 4

IC 857
SN29771BN
4 BITS DECODER
PR 5

IC70
HEF 40174

SK21
SK22
SK23
SK24
SK25

a = VHF
b = VHF
c = UHF

IN SOME VERSIONS SK21
ELIMINARE SK21 32, TS61

| | | |

DIAGRAM – SCHALTBILD – SCHEMA B

U94

U34

U33

U856

IN SOME VERSIONS
SK10 DELETED
ELIMINARE SK10
IN ALCUNE VERS

IC856 SN29770BN
IC857 SN29771BN
IC858 SN29772BN
4 BITS DECODER — DECOD.4 BITS
PR.1 PR.2 PR.3 PR.4
PR.5 PR.6 PR.7 PR.8
PR.9 PR.10 PR.11 PR.12

IC70 HEF 40174

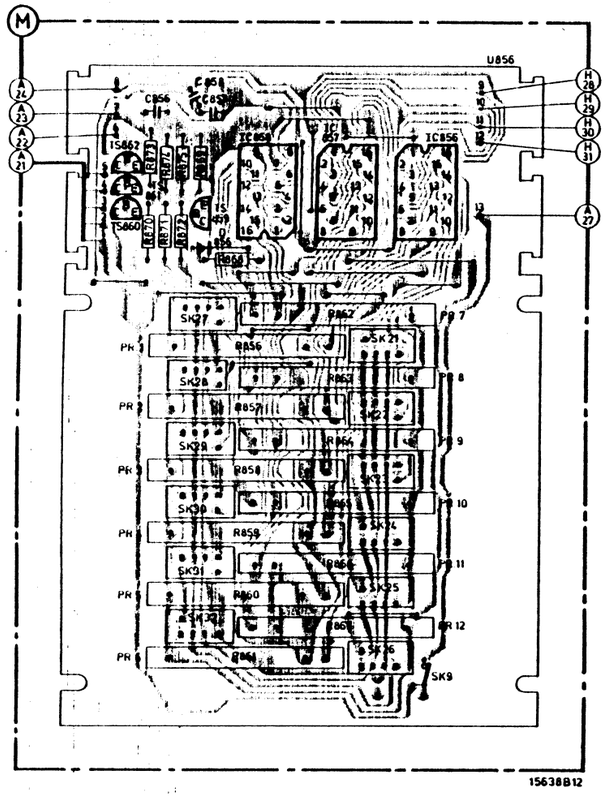
IN SOME VERSIONS SK21···32, TS860···862, D856, R870···875 DELETED
ELIMINARE SK21···32, TS860···862, D856, R870···875 IN ALCUNE VERS.

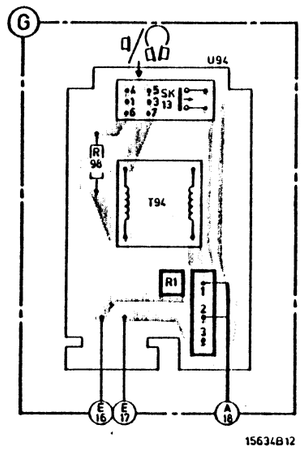
a = VHF
b = VHF
c = UHF

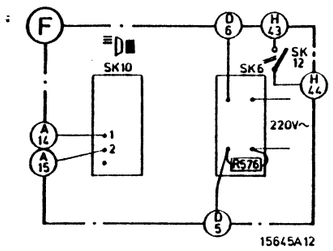
4822 727 6146.1/AG06/SV02

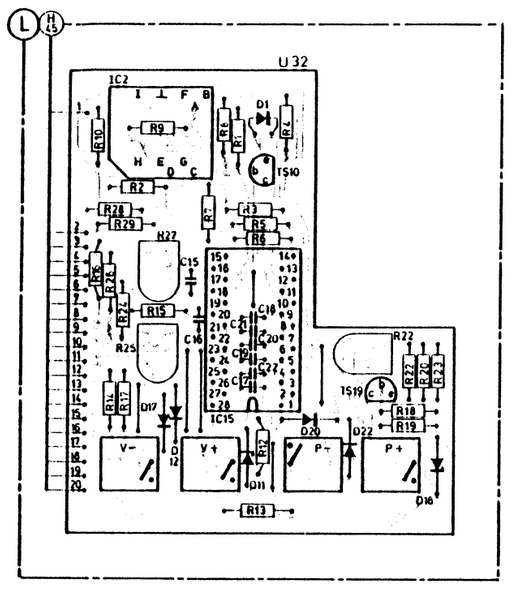
2023 E17

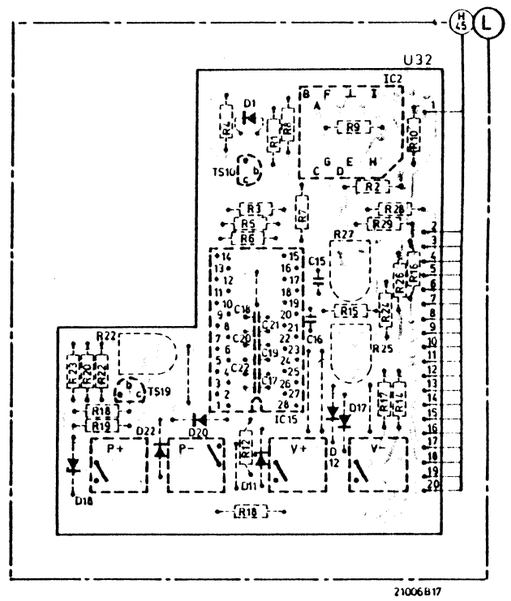
| | | |

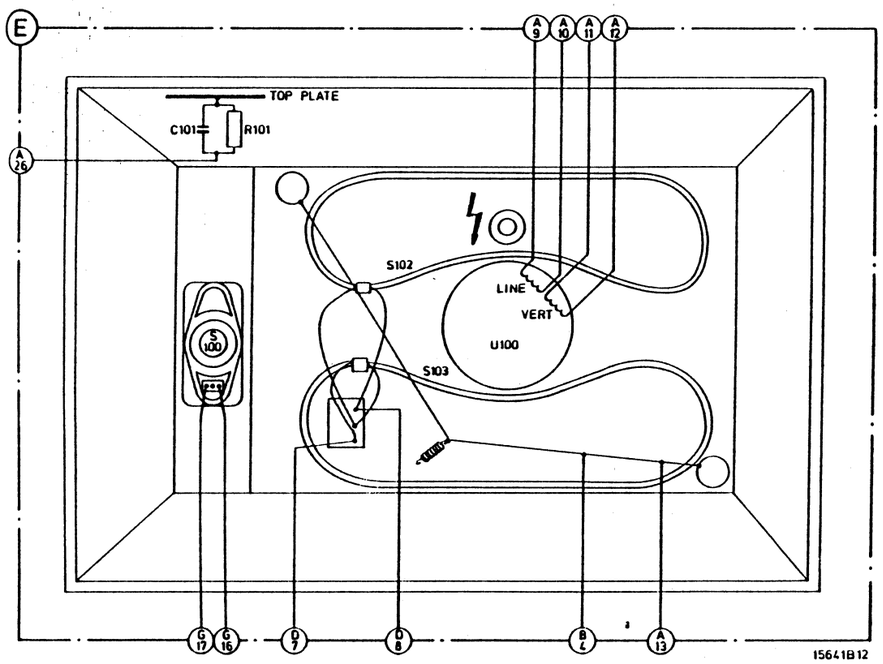

M
U856
SK27
SK21
SK28
SK29
SK30
SK31
SK35
SK36
SK9
15638B12

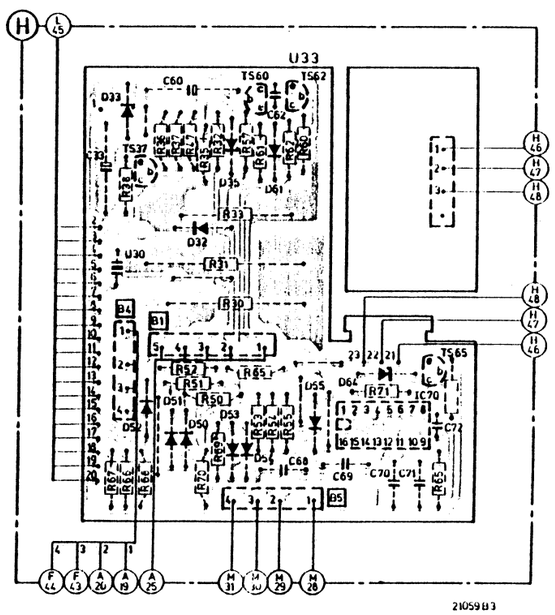

G
U94
T94
15634B12

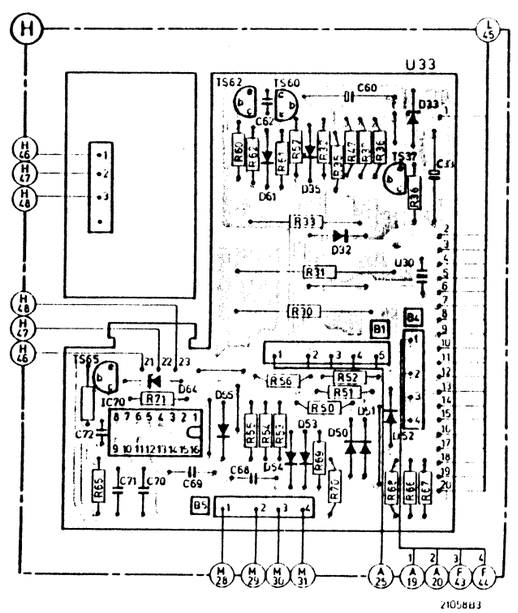

F
SK10
SK6
220V~
15645A12


L
U32
IC2
21057B20


U32
IC2
21006B17

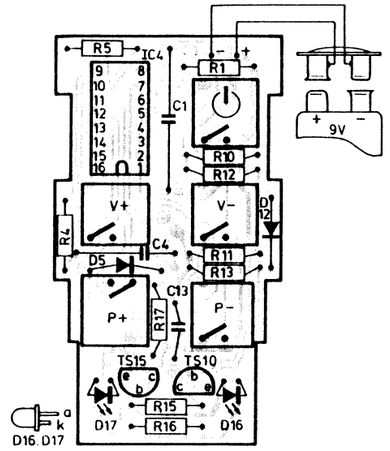

E
TOP PLATE
C101
R101
S102
S103
LINE
VERT
U100
15641B12


H
U33
21059B3


H
U33
21058B3

IC		
HEF40174BP		5322 209 14444
LN5261RK	Display	4822 130 90037
SN29770 BN-00		4822 209 80346
SN29771 BN-00		4822 209 80347
SN29772 BN-00		4822 209 80352
Transistor		
BC548B		4822 130 40937
BC558		4822 130 40941
BC558B		4822 130 44197
Diode		
BA221		4822 130 30831
BA317		4822 130 30847
BZX79-C4V3		5322 130 30509
BZX79-C6V8		4822 130 34278
BZX79-C9V1		4822 130 30862
LED		
CQX23/II		4822 130 31345
Capacitor		
28p for IC		4822 255 40188
16p for IC		5322 255 44185
2p for LED		4822 255 40192

MODULE		
U32	Decoder panel	4822 212 20937
U33	Periphery panel	4822 212 20938
U94	Heahphone panel	4822 212 20503
U103	Tuning drawer	4822 212 20935
U103	Tuning drawer (Engl.)	4822 212 20936
U93	Infra-red transmitter	4822 212 20939
U34	Infra-red receiver	4822 212 20331
U101	Pal/Secam	4822 212 20694
U430	Y-autom. P/S	4822 212 20695
Switch		
SK6+ 12		4822 276 10792
SK6+ 12 (England)		4822 276 10718
SK21 - 32		4822 277 20228
Resistor		
R21,25,27 - U32	4,7 kΩ	4822 100 10331
R30 - U33	10 kΩ - 7 W	4822 116 60097
R33 - U33	56 Ω	5322 116 54397
R50 - U33	10 kΩ	5322 116 54619
R51 - U33	20 kΩ	5322 116 54880
R52 - U33	39 kΩ	4822 116 51262
R64 - U33	100 kΩ	4822 110 73161
R856÷867 - U103	100 kΩ	4822 105 90006
Miscellaneous		
T94 - U94		4822 212 20503
S100	Loudspeaker	4822 240 20183
U30 - U33	Cer. resonator CSB360A	4822 242 70347
U100	Deflection unit	4822 150 10112
S102,S103	Degaussing coil	4822 150 10113



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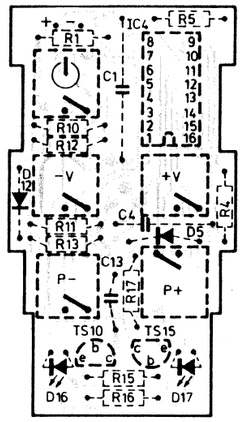

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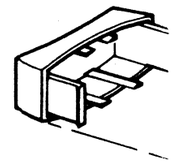
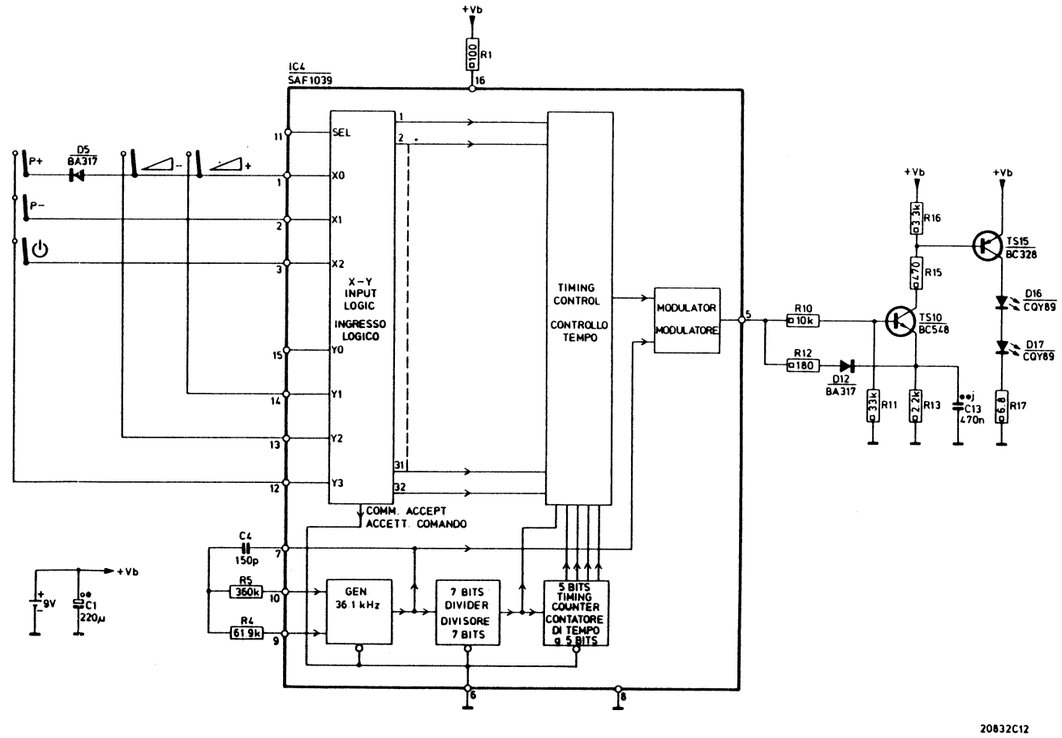


SIMPLE REMOTE CONTROL TRANSMITTER



20832C12

IC	
SAF1039P	
Transistor	
BC328	
BC548	
Diode	
BA317	

822 212 20937
822 212 20938
822 212 20503
822 212 20935
822 212 20936
822 212 20939
822 212 20331
822 212 20694
822 212 20695

822 276 10792
822 276 10718
822 277 20228

322 100 10331
322 116 60097
322 116 54397
322 116 54619
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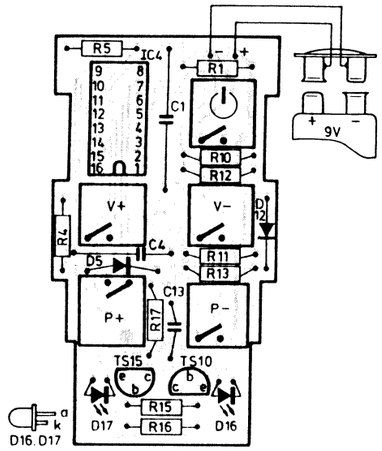
322 116 51262
322 110 73161
322 105 90006

322 212 20503
322 240 20183
322 242 70347
322 150 10112
322 150 10113



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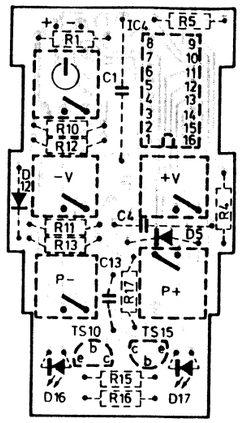

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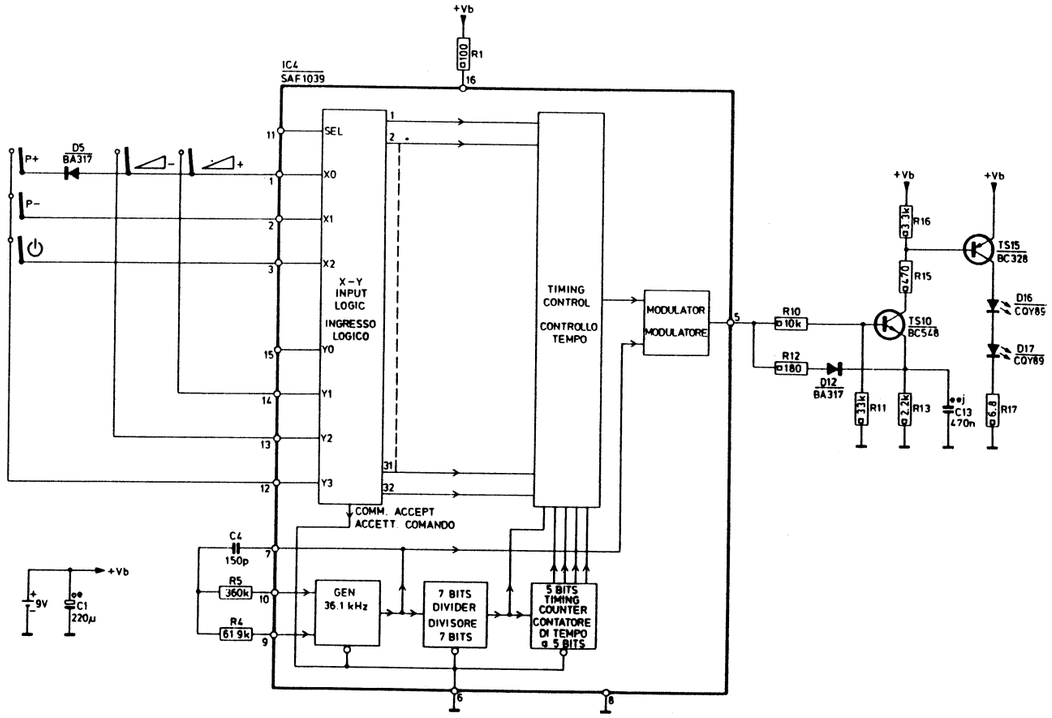
SIMPLE REMOTE CONTROL TRANSMITTER



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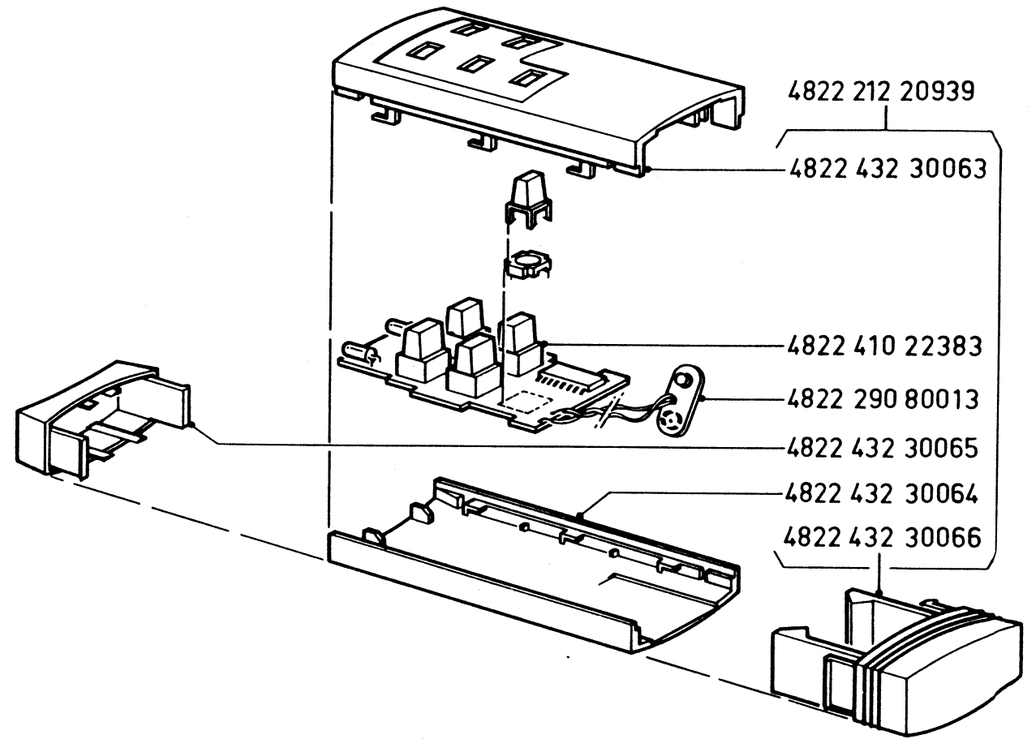

21000 B12

IC SAF1039P	4822 209 10035	CQY89	4822 130 30949
BC328 BC548	4822 130 44104 4822 130 40938	C4 — 150 pF - 1%	4822 121 50416
BA317	4822 130 30847	R4 — 61,9 k - 0,4 W R5 — 360 k - 0,4 W	4822 116 51265 4822 116 51274